

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: CORELITE

Report Number: P523832

Luminaire Tested: **SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523832
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

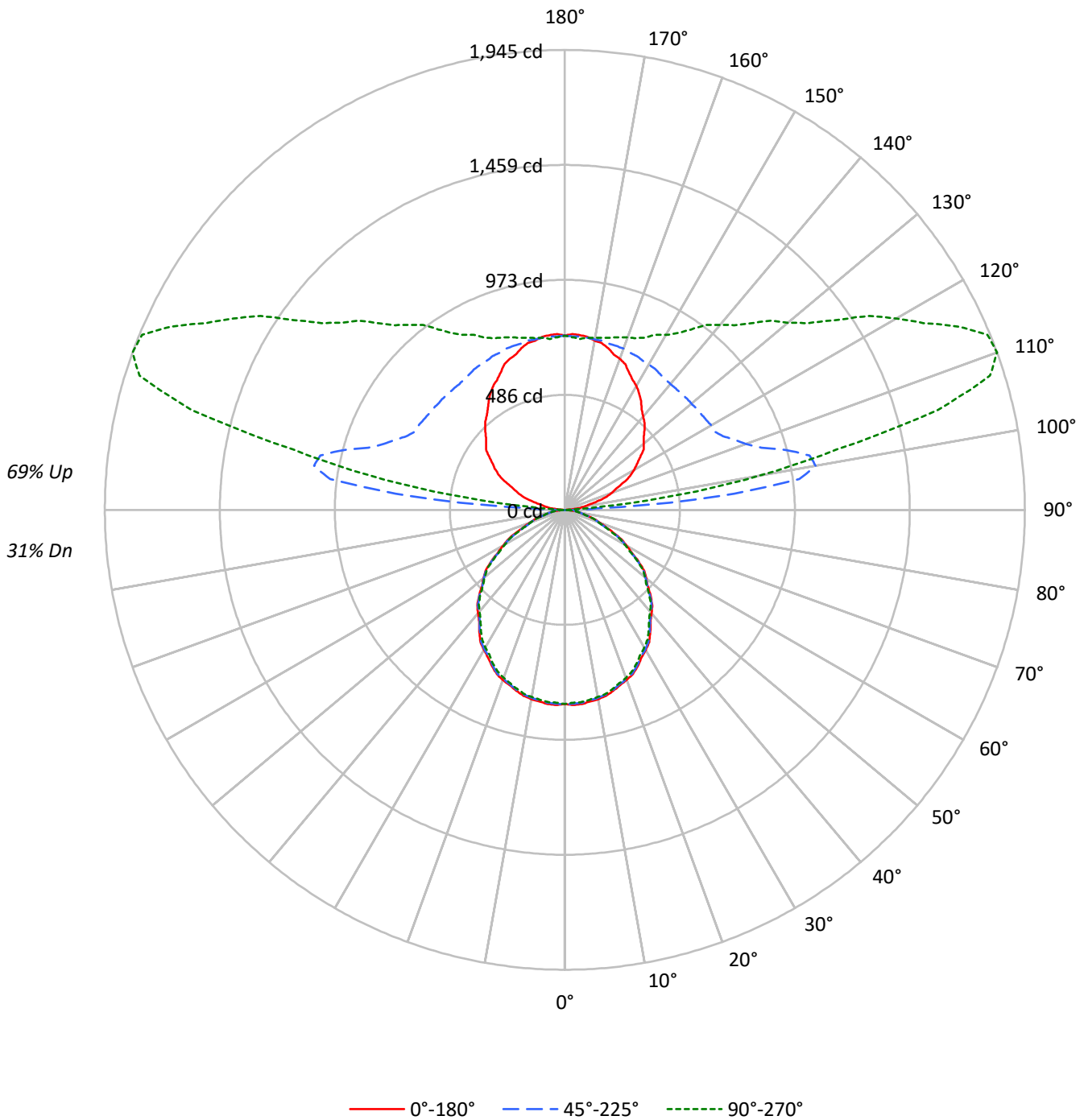
Lumens per Lamp: N/A
Luminaire Lumens: 6675.6 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 53
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	68	77	71	66	62	56	53	50	43	41	39	31	29	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21	17
5	65	54	46	41	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	45	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7575	7575	7575
5°	7630	7583	7556
10°	7618	7563	7529
15°	7567	7526	7485
20°	7517	7475	7418
25°	7427	7376	7303
30°	7290	7252	7159
35°	7099	7051	6962
40°	6872	6829	6751
45°	6684	6637	6572
50°	6445	6403	6341
55°	6111	6030	5984
60°	5563	5403	5377
65°	4901	4696	4681
70°	4232	4057	4057
75°	3643	3590	3540
80°	3209	3252	3172
85°	2509	2742	2742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	1.2
10°-20°	221.7	3.3
20°-30°	332.0	5.0
30°-40°	389.5	5.8
40°-50°	390.7	5.9
50°-60°	333.3	5.0
60°-70°	217.3	3.3
70°-80°	109.0	1.6
80°-90°	30.2	0.5
90°-100°	335.6	5.0
100°-110°	954.8	14.3
110°-120°	914.8	13.7
120°-130°	724.0	10.8
130°-140°	581.1	8.7
140°-150°	455.0	6.8
150°-160°	332.9	5.0
160°-170°	206.2	3.1
170°-180°	70.0	1.0
0°-30°	631.3	9.5
0°-40°	1020.8	15.3
0°-60°	1744.7	26.1
0°-90°	2101.3	31.5
90°-120°	2205.2	33.0
90°-150°	3965.3	59.4
90°-180°	4574.0	68.5
0°-180°	6675.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	824	816	819	816	816	78
15°	792	784	788	785	784	223
25°	730	721	725	718	717	336
35°	630	624	626	619	618	394
45°	512	509	509	504	504	394
55°	380	378	375	373	372	338
65°	224	220	215	214	214	224
75°	102	102	101	100	99	111
85°	24	26	26	26	26	28
90°	0	0	0	0	0	2
95°	36	144	650	225	139	42
105°	148	225	973	1719	1634	157
115°	276	333	738	1563	1835	272
125°	389	432	704	1169	1397	348
135°	476	516	696	987	1116	367
145°	561	590	701	854	931	351
155°	641	656	718	772	804	296
165°	708	711	727	742	753	199
175°	742	738	735	731	725	70
180°	736	736	736	736	736	

TEST NUMBER: P523832

CATALOG NUMBER: SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.0	821.0	821.0	821.0	821.0
2.5°	826.2	819.4	821.0	819.7	816.4
5°	823.8	816.1	818.8	815.9	815.9
7.5°	818.2	809.8	812.5	809.6	809.5
10°	813.1	804.6	807.3	804.4	803.7
12.5°	805.6	797.1	800.4	796.9	796.8
15°	792.2	784.5	787.9	785.0	783.6
17.5°	777.1	768.6	772.8	768.7	768.2
20°	765.6	757.1	761.3	755.5	755.5
22.5°	751.8	743.3	748.0	740.5	740.5
25°	729.6	721.1	724.6	718.1	717.4
27.5°	703.3	695.0	698.5	691.2	691.0
30°	684.3	676.5	680.7	672.7	672.0
32.5°	663.5	656.4	659.4	651.4	650.7
35°	630.3	624.0	626.0	618.8	618.1
37.5°	595.3	588.9	591.2	585.0	584.7
40°	570.6	566.4	567.0	561.9	560.5
42.5°	547.6	542.8	543.4	538.3	538.1
45°	512.3	508.8	508.7	503.7	503.7
47.5°	474.9	472.2	471.4	467.3	467.1
50°	449.0	446.9	446.1	442.5	441.8
52.5°	421.9	420.9	418.5	415.4	415.3
55°	379.9	378.5	374.9	372.7	372.0
57.5°	334.3	331.5	327.4	324.2	324.8
60°	301.5	298.7	292.8	291.4	291.4
62.5°	269.8	266.4	260.6	258.6	259.7
65°	224.5	220.3	215.1	213.7	214.4
67.5°	183.3	179.5	174.0	174.0	173.4
70°	156.9	154.7	150.4	150.4	150.4
72.5°	133.3	132.3	129.1	129.1	128.5
75°	102.2	102.2	100.7	100.0	99.3
77.5°	76.6	76.8	76.1	75.4	74.1
80°	60.4	61.8	61.2	60.4	59.7
82.5°	45.5	46.9	46.8	45.5	45.3
85°	23.7	25.9	25.9	25.9	25.9
87.5°	6.3	8.6	9.2	9.2	9.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.2	59.4	137.8	40.1	30.2
95°	36.4	144.5	649.6	224.8	138.6
97.5°	66.9	169.3	1000.5	715.9	490.6
100°	88.2	184.0	1076.6	1090.5	840.0
102.5°	111.7	199.9	1059.8	1395.9	1177.1
105°	148.4	225.1	973.0	1718.7	1633.8
107.5°	185.6	254.4	871.7	1809.7	1885.3
110°	211.4	275.7	813.4	1774.9	1944.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	297.1	774.2	1692.5	1934.6
115°	275.8	333.3	737.8	1563.0	1835.4
117.5°	310.8	364.7	716.3	1421.4	1710.0
120°	338.8	384.0	714.0	1340.5	1617.0
122.5°	361.2	406.4	708.4	1269.5	1526.3
125°	389.2	431.6	704.2	1168.6	1397.2
127.5°	419.7	459.4	702.0	1108.3	1296.7
130°	435.4	475.1	698.6	1066.4	1230.6
132.5°	452.2	490.8	698.6	1033.6	1184.7
135°	476.0	515.7	695.8	987.1	1115.8
137.5°	498.4	537.0	695.5	947.8	1059.0
140°	515.2	554.9	694.4	915.2	1022.0
142.5°	534.3	567.4	697.8	889.2	985.1
145°	561.4	590.2	701.4	854.4	931.0
147.5°	584.7	612.6	707.6	819.1	885.4
150°	604.8	624.0	709.8	807.5	854.0
152.5°	620.5	640.8	712.1	791.7	835.0
155°	641.2	656.3	718.2	772.1	803.6
157.5°	667.0	676.0	719.6	763.2	785.7
160°	680.4	687.3	725.2	756.5	775.6
162.5°	688.3	696.2	726.3	750.8	765.5
165°	708.4	711.2	726.6	742.3	753.2
167.5°	722.1	719.7	733.1	740.2	744.5
170°	726.6	725.2	730.8	732.3	737.8
172.5°	736.7	732.0	734.2	730.1	734.5
175°	742.0	737.9	735.0	730.7	725.2
177.5°	744.3	737.7	734.2	729.7	730.8
180°	736.4	736.4	736.4	736.4	736.4

(END OF REPORT)